



Data Taking Statistics

Week of 2003 May 16-22

Day	Date	Del	Normalizable Luminosity (nb ⁻¹)			Hours			Norm. Events (k)		Efficiency	
			Util	Rec	Physics	Store	Util	Rec	Rec	Physics	Rec	Phys
Fri	16-May-03	1538.16	1513.34	1371.04	1371.04	18.3	17.9	17.1	2397	2397	0.891	0.891
Sat	17-May-03	1483.74	1425.60	1339.76	1339.76	17.0	16.5	16.3	2260	2260	0.903	0.903
Sun	18-May-03	549.31	545.91	517.36	517.36	8.0	7.9	7.9	1138	1138	0.942	0.942
Mon	19-May-03	1045.81	1039.10	961.60	961.60	16.4	16.3	16.1	2104	2104	0.919	0.919
Tue	20-May-03	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0	0	0.000	0.000
Wed	21-May-03	0.00	0.00	0.00	0.00	0.0	0.0	0.0	0	0	0.000	0.000
Thu	22-May-03	96.37	90.36	81.54	81.54	5.6	5.2	5.0	465	465	0.846	0.846
		4713.4	4614.3	4271.3	4271.3	65.3	63.8	62.4	8364	8364	0.906	0.906

	Recorded Physics Lumi	Efficiency	Physics Events (million)
This Week	4.3 pb⁻¹	90.6%	8.4
Last Week	6.3 pb⁻¹	87.9%	11.0
Best Week (2003 May 02-08)	8.6 pb⁻¹	87.9%	15.5



Delivered Luminosity Losses

Major Sources of Downtime & Deadtime (>0.15 hrs)

Date	Time	Downtime (hrs)	Deadtime (hrs)	Reason
16-May-03	4:15	0.25	0.60	CFT/CTT Readout Problems
17-May-03	14:57	0.28	0.05	Muon x33 module 279

Muon Problems at the beginning of Stores 2555 & 2581

- Disable channel in readout, and inputs to L1 and L2

Muon Fatal Alarms - 4 instances on Mon May 19 - paused ~500 seconds

Daily efficiency has averaged > 90%. Is that good enough?



Past Week of Stores

- **15:31 - 22 May 2003** End of Store 2581 - terminated by Tevatron. **NEW**
- **09:38 - 22 May 2003** Store 2581 - D0 Luminosity = 5.35E30. **NEW**
- **20:17 - 19 May 2003** End of Store 2562 declared by D0. Beam handed over to Tevatron for end of store studies.
- **03:52 - 19 May 2003** Store 2562 - D0 Luminosity = 28.90E30.
- **07:58 - 18 May 2003** End of Store 2555 - terminated by Tevatron.
- **14:57 - 17 May 2003** Store 2555 - D0 Luminosity = 42.29E30.
- **07:59 - 17 May 2003** End of Store 2551 - terminated by Tevatron.
- **13:46 - 16 May 2003** Store 2551 - D0 Luminosity = 40.73E30.
- **08:04 - 16 May 2003** End of Store 2549 - terminated by Tevatron.
- **14:06 - 15 May 2003** Store 2549 - D0 Luminosity = 42.07E30.

Endless shifts of studies on Tuesday and Wednesday. Problems stacking, and more problems putting in a shot. Except for 5.6 hours of a low luminosity store on Thursday, the Tevatron has delivered no luminosity from 20:00 Monday through 12:00 today (and counting).



Other News

- Power outages on Tue May 27 and Fri May 30 both from 07:00-07:30
 - Expect to have store through most of the Tue May 27 Owl Shift (about 05:30), so experts should come in by 06:00 or provide very clear instructions for Shifters to cleanly shut down systems
 - As Monday May 26 is a holiday - if beam is lost prematurely and there is no stack, accelerator will do studies up to power outage
 - Special instructions from Dan Edmunds to bring down & back up MCH
 - Master clock, TFW, SCL hub, Routing Master, L1 CAL
 - Arnd Meyer & Alan Stone will do radiation survey at 08:00 Tuesday
 - D0 will go into Supervised Access through 12:00 Fri May 30
- Captains Shifts: 08:00-14:00 & 14:00-20:00 shifts from Tue through Fri
 - Mike Tuts will do 1/2 shift from 04:00 Fri to supervise the 2nd power outage
 - SA keys - remind everyone to NOT take keys from D0
- Detector Group Leaders
 - If you don't need shifters for some shifts next week, let them know now - maybe alter the calendar to reflect this
 - Some people may be flying in for no reason
- Decision to open detector will be made Tuesday morning
 - Another Calorimeter Preamp Fan failure

D0 Data Taking: Monthly Summary [19 April 2002 - 22 May 2003]

